Amendments to the Claims:

- 1. (Previously presented) A haloaluminoxane composition wherein the halogen is fluorine, chlorine, or bromine, wherein the amount of halogen atoms present in said composition is in the range of about 0.5 mole % to about 10 mole % relative to aluminum atoms, and wherein said composition is formed from an aluminoxane and at least one halogenation agent.
- 2. (Previously presented) A haloaluminoxane composition wherein the halogen is fluorine, chlorine, and/or bromine, and wherein the amount of halogen atoms present in said composition is in the range of about 0.5 mole % to about 15 mole % relative to aluminum atoms, wherein said composition is formed from components comprising
- (a) at least one aluminoxane and
- (b) at least one halogenation agent which is
 - (i) at least one halohydrocarbon of the formula R_nCX_{4-n} , where n = 1-3, X is, independently, fluorine, chlorine or bromine, and where R is, independently, a hydrogen atom or a hydrocarbyl group having from one to about twenty carbon atoms;

or

(ii) at least one siloxane having at least one labile halogen atom in the molecule, wherein each halogen atom is, independently, fluorine, chlorine, or bromine;

or

(iii) at least one silane of the formula R'_nSiX_{4-n} , where n = 1-3, X is, independently, fluorine, chlorine or bromine, and where R' is, independently, a hydrocarbyl group having from one to about twenty carbon atoms,

or

(iv) at least one tin compound of the formula R'_nSnX_{4-n} , where n = 1-3, X is, independently, fluorine, chlorine or bromine, and where R' is, independently, a hydrocarbyl group having from one to about twenty carbon atoms;

or

(v) at least one hydrocarbyl aluminum halide of the formula R''_mAlX_{3-m} , where m = 1 or 2, where X is, independently, fluorine, chlorine or bromine, and where R'' is, independently, a hydrocarbyl group having from one to about twenty carbon atoms;

or

(vi) mixtures of any two or more of (i)-(v).

- 3. (Previously presented) A composition according to Claim 1 wherein the amount of halogen atoms present in said composition is in the range of about 2 mole % to about 10 mole % relative to aluminum atoms.
- 4. (Previously presented) A composition according to Claim 2 wherein the halogen is fluorine.
- 5. (Original) A composition according to Claim 2 wherein (b) is at least one halohydrocarbon.
- 6. (Currently amended) A composition according to Claim 2 wherein the amount of halogen atoms present in said haloaluminoxane composition is a partially halogenated aluminoxane in the range of about 2 mole % to about 10 mole % relative to aluminum atoms.
- 7. (Original) A composition according to Claim 6 wherein (b) is at least one siloxane, silane, tin compound, or hydrocarbyl aluminum halide.
- 8. (Original) A composition according to Claim 2 wherein the hydrocarbyl groups of said aluminoxane are saturated, and have from one to about twenty carbon atoms.
- 9. (Original) A composition according to Claim 2 wherein said aluminoxane is methylaluminoxane, ethylaluminoxane, n-butylaluminoxane, or isobutylaluminoxane.
- 10. (Original) A composition according to Claim 5 wherein said halohydrocarbon is one in which at least one R is an aryl group.
- 11. (Original) A composition according to Claim 10 wherein said halohydrocarbon is α, α, α -trifluorotoluene.
- 12. (Original) A composition according to Claim 5 wherein said aluminoxane is methylaluminoxane, ethylaluminoxane, n-butylaluminoxane, or isobutylaluminoxane, and wherein said halohydrocarbon is one in which at least one R is an aryl group.
- 13. (Original) A composition according to Claim 5 wherein said aluminoxane is methylaluminoxane, ethylaluminoxane, n-butylaluminoxane, or isobutylaluminoxane, and wherein said halohydrocarbon is α,α,α -trifluorotoluene.

- 14. (Currently amended) A composition according to Claim 13 wherein the amount of halogen atoms present in said haloaluminoxane is an ionic haloaluminoxane complex in the range of about 2 mole % to about 10 mole % relative to aluminum atoms.
- 15. (Currently amended) A composition according to Claim 13 wherein the amount of halogen atoms present in said haloaluminoxane is a partially halogenated aluminoxane in the range of about 2 mole % to about 6 mole % relative to aluminum atoms.
- 16. (Original) A composition according to Claim 7 wherein said halogenation agent is a silane.
- 17. (Original) A composition according to Claim 7 wherein said halogenation agent is a silane, and wherein said silane is triphenylfluorosilane or trimethylfluorosilane.
- 18. (Original) A composition which comprises a haloaluminoxane composition as in Claim 2 supported on a catalyst support or carrier.
- 19. (Original) A composition as in Claim 18 wherein said inorganic support or carrier is silica, alumina, or silica-alumina.
- 20. (Original) A composition according to Claim 18 wherein said aluminoxane is methylaluminoxane, ethylaluminoxane, n-butylaluminoxane, or isobutylaluminoxane.
- 21. (Original) A composition according to Claim 18 wherein (b) is at least one halohydrocarbon, and wherein said halohydrocarbon is one in which at least one R is an aryl group.
- 22. (Original) A composition according to Claim 18 wherein said aluminoxane is methylaluminoxane, ethylaluminoxane, n-butylaluminoxane, or isobutylaluminoxane, wherein (b) is at least one halohydrocarbon, and wherein said halohydrocarbon is one in which at least one R is an aryl group.
- 23. (Original) A composition according to Claim 22 wherein said halohydrocarbon is α,α,α -trifluorotoluene, and wherein said catalyst support or carrier is silica.

- 24. (Original) A composition according to Claim 7 wherein said aluminoxane is methylaluminoxane, ethylaluminoxane, n-butylaluminoxane, or isobutylaluminoxane; wherein said halogenation agent is a siloxane; and wherein said siloxane is a trisiloxane or a tricyclosiloxane.
- 25. (Original) A composition according to Claim 7 wherein said halogenation agent is a siloxane, and wherein said siloxane is 3,3,3-trifluoropropylheptamethyltrisiloxane, 3,3,3-trifluoropropylheptamethylcyclotrisiloxane, or poly[methyl(3,3,3-trifluoropropyl)siloxane].
- 26. (Original) A composition according to Claim 25 wherein said aluminoxane is methylaluminoxane, ethylaluminoxane, n-butylaluminoxane, or isobutylaluminoxane.
- 27. (Currently amended) A composition according to Claim 18 wherein the amount of halogen atoms present in said haloaluminoxane composition is a partially halogenated aluminoxane in the range of about 2 mole % to about 10 mole % relative to aluminum atoms.
- 28. (Original) A composition according to Claim 27 wherein said aluminoxane is methylaluminoxane, ethylaluminoxane, n-butylaluminoxane, or isobutylaluminoxane, and wherein said inorganic support or carrier is silica, alumina, or silica-alumina.
- 29. (Original) A composition according to Claim 27 wherein said aluminoxane is methylaluminoxane, ethylaluminoxane, n-butylaluminoxane, or isobutylaluminoxane; wherein said halogenation agent is a siloxane; and wherein said siloxane is a trisiloxane or a tricyclosiloxane.
- 30. (Original) A composition according to Claim 27 wherein said halogenation agent is a siloxane, and wherein said siloxane is 3,3,3-trifluoropropylheptamethyltrisiloxane, 3,3,3-trifluoropropylheptamethylcyclotrisiloxane, or poly[methyl(3,3,3-trifluoropropyl)siloxane].
- 31. (Original) A composition according to Claim 30 wherein said aluminoxane is methylaluminoxane, ethylaluminoxane, n-butylaluminoxane, or isobutylaluminoxane.

32. (Original) A composition according to Claim 27 wherein said aluminoxane is methylaluminoxane; wherein said halogenation agent is a siloxane, wherein said siloxane is poly[methyl(3,3,3-trifluoropropyl)siloxane], and wherein said support is silica.

33-58. (Cancelled)